

Garrett Beatty

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Education

- **The College of New Jersey** Ewing, NJ
Bachelor of Science in Computer Science Aug. 2015 - May 2019

Work Experience

- **Lockheed Martin** Moorestown, NJ
Software Engineering Intern Jun. 2018 - Aug. 2018
- **The College of New Jersey** Ewing, NJ
Student Researcher Jan. 2017 - Dec. 2017
 - Designed a machine learning infrastructure with a team of 5 students and faculty in Python using machine learning and statistical analysis libraries such as scikit-learn, numpy, pandas, and matplotlib.
 - Improved the speed of the infrastructure by 95% by adding support for parallel processing on the High Performance Cluster (HPC).
 - Researched and integrated active learning stopping methods into a machine learning infrastructure in order to reduce annotation cost within the Natural Language Processing (NLP) field.
- **Comcast** Philadelphia, PA
Software Engineering Intern Jun. 2016 - Aug. 2016
 - Increased the efficiency of the Quality Assurance team by creating a Node.js application that automatically generates unit testing reports, which can be filtered by date, device type, operating system, etc.
 - Collaborated with another intern to create a web application in C#, HTML, and Javascript that connects to an SQL database to retrieve customer session information.

Languages/Skills

- **Proficient:** Python, Java
- **Past Experience:** C, C++, C#, SQL, Ruby, PHP, Javascript, Node.js, Perl, MATLAB
- **Tools:** Git, SLURM, Linux/UNIX, Jenkins, Travis CI, Fastlane

Projects

- **arXiv eXplorer**
arxiv.gbeatty.com
 - Published an Android application with over 100 downloads that allows users to browse, search, and download scientific papers from arxiv.org.
 - Java, Butterknife, OkHttp, Sugar ORM, arXiv API, Travis CI, Fastlane
- **Google Photos Location Visualizer**
googlephotosmapplotter.gbeatty.com
 - Created a web application that allows users to visualize their photos on Google Maps based on their geo-location metadata.
 - Python, Flask, Google Maps API, Google Picasa API

Publications

“Impact of Batch Size on Stopping Active Learning for Text Classification”, *Proceedings of the 2018 IEEE 12th International Conference on Semantic Computing (ICSC), Laguna Hills, CA, 2018.*

Leadership and Activities

- **Founder/Vice President:** TCNJ Table Tennis Club

Second Languages

- **3 Semesters:** American Sign Language